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Division Director

State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

MINERALS PROGRAM

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340

October 3, 1990

TO:

Wayne Hedberg, Permit Supervisor

FROM:

Tony Gallegos, Reclamation Engineer add

RE:

Redmond Clay and Salt Company Plan Review, M/039/002, Sanpete

County, Utah

No real plan has been submitted by Redmond at this time. I have arrived at what I would consider a rough reclamation estimate, from reviewing my field notes, photographs and the latest maps supplied by Redmond.

The estimate includes revegetation suggestions made by Holland, although due to his absence he has not had the opportunity to review it. The estimate does not include treatment of the disturbances designated by the operator as "old", taking this to mean pre-law. The estimate does however, include treatment of the clay mining area between the North and South Mining Properties which was included on one of the maps submitted, but not exactly detailed by the operator. This area is shown under the ownership of the Bosshardt Farms and may need to be considered as separate from Redmond Clay and Salt, although this is unclear at this time. I feel we should postpone sending this estimate to the operator until we have had a chance to review/discuss it.

The estimate contains a considerable amount of detail with respect to the assumptions made. Information which would improve the accuracy of the estimate would include the following:

- 1) which roads have a post-mining land use?
- 2) which structures, if any, have a post-mining land use?
- 3) the dimensions and location of each mine portal;
- 4) the highwall dimensions for the entire perimeter of all pits, salt and clay;
- 5) how much pre-law disturbance has been redisturbed by the operator and how much has been left undisturbed;

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- 6) a clearly defined area of disturbance;
- 7) an estimate of the amount of material to remain on waste dumps and piles at the end of the mine life;
- 8) the dimensions and general description of all structures (i.e., concrete floor, reinforced concrete, steel construction, etc);
- 9) identification of those areas to be reseeded;
- 10) locations and dimensions of any/all ponds and established drainages;
- 11) an estimated description of the underground workings at the end of the mine life.

jb cc: Holland Shepherd MNM039002.2

RECLAMATION ESTIMATE Redmond Clay and Salt Company North Mining Property

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ng Property Sanpete County M/039/002

Prepared by Utah State Division of Oil, Gas & Mining

Reclamation Details - North Mine Property

- -Areas designated as Pre-Law by the Division are to be left as is
- -Closure of all mine portals by blasting/backfilling for 15 feet inside
- -Regrade portal closure to a 2 horizontal: 1 vertical slope (45 degrees)
- -ASSUMED: 2 salt mine portals; portal dimensions 65 ft x 40 ft
- -ASSUMED: Salt Mine highwalls are 100 ft high for entire pit area
- -ASSUMED: Clay Mine highwalls are 60 ft high for entire pit area
- -Pit highwalls to be blasted/regraded to a 2:1 slope for entire perimeter
- -Pit floors to be Ripped, Mulched, Disked, Fertilized, & Seeded(R-M-D-F-S)
- -Waste dumps & piles to be regraded to a 3h:1v slope (18 degrees)
- -All waste dumps & piles to be M-D-F-S
- -Roads designated by the Division as having a post-mining use to be left as is -All other roads to have berms removed, be regraded, and be R-M-D-F-S

| <u>Description</u> | <u>Amount</u> | | \$/Unit | Cost-\$ | | |
|---|---------------|------|---------|---------|--|--|
| Blasting 2 portals | 3,000 | CY | 5.55 | 16,650 | | |
| Regrading 2 portal closures | 2,000 | CY | 0.25 | 500 | | |
| Regrading salt pit highwalls | 715 | LF | 11 | 7,865 | | |
| Rip Salt pit floor | 0.81 | acre | 955 | 774 | | |
| M-D-F-S Salt pit floor | 0.81 | acre | 1,480 | 1,199 | | |
| Regrading clay pit highwalls | 4,290 | LF | 11 | 47,190 | | |
| Rip Clay pit floors | 4.08 | acre | 955 | 3,896 | | |
| M-D-F-S Clay pit floors | 4.08 | acre | 1,480 | 6,038 | | |
| Regrade waste dump | 1.39 | acre | 802 | 1,115 | | |
| M-D-F-S Waste dump | 1.39 | acre | 1,480 | 2,057 | | |
| Regrade gravel pile | 1.57 | acre | 802 | 1,259 | | |
| M-D-F-S Gravel pile | 1.57 | acre | 1,480 | 2,324 | | |
| Rip roads & regrade berm | 3.44 | acre | 1,055 | 3,629 | | |
| M-D-F-S Roads | 3.44 | acre | 1,480 | 5,091 | | |
| | SUBTOTAL | | | | | |
| + 109 | 9,959 | | | | | |
| | 109,546 | | | | | |
| + 5 yr ES | 10,456 | | | | | |
| NORTH MINING PROPERTY SUBTOTAL IN 1995-\$ | | | | | | |

RECLAMATION ESTIMATE

Redmond Clay and Salt Company

South Mining Property

M/039/002

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10/01/90

Sanpete County

Prepared by Utah State Division of Oil, Gas & Mining

Reclamation Details - South Mine Property

- -Closure of all mine portals by blasting/backfilling for 15 feet inside
- -Regrade portal closure to a 2 horizontal: 1 vertical slope (45 degrees)
- -ASSUMED: 4 salt mine portals; portal dimensions 65 ft x 40 ft
- -ASSUMED: Salt Mine highwalls are 100 ft high for entire pit area
- -Pit highwalls to be blasted/regraded to a 2:1 slope for entire perimeter
- -Pit floors to be Ripped, Mulched, Disked, Fertilized, & Seeded(R-M-D-F-S)
- -Waste dump & new earth removal area regraded to a 3h:1v slope (18 degrees)
- -Waste dump & new earth removal areas to be M-D-F-S
- -Yard area (includes facilities area) to be R-M-D-S-F
- -ASSUMED: Metal scrap to be buried on mine site and area R-M-D-S-F
- -Roads graded & R-M-D-S-F unless a Division designated post-mining use

| | | <u> </u> | <u> </u> | |
|----------------------------------|---------------|----------|----------------|-----------|
| <u>Description</u> | <u>Amount</u> | | <u>\$/Unit</u> | Cost-\$ |
| Blasting 4 portals | 6,000 | CY | 5.55 | 33,300 |
| Regrading 4 portal closures | 4,000 | CY | 0.25 | 1,000 |
| Regrading salt pit highwalls | 1,925 | LF | 11 | 21,175 |
| Rip Salt pit floor | 2.06 | acre | 955 | 1,967 |
| M-D-F-S Salt pit floor | 2.06 | acre | 1,480 | 3,049 |
| Regrade Waste dump | 1.08 | acre | 802 | 866 |
| M-D-F-S Waste dump | 1.08 | acre | 1,480 | 1,598 |
| Regrade Earth removal area | 2.51 | acre | 802 | 2,013 |
| M-D-F-S Earth removal area | 2.51 | acre | 1,480 | 3,715 |
| Rip Yard area | 5.20 | acre | 955 | 4,966 |
| M-D-S-F Yard area | 5.20 | acre | 1,480 | 7,696 |
| Bury metal scrap | 0.77 | acre | 1,210 | 932 |
| Rip Metal Scrap area | 0.77 | acre | 955 | 735 |
| M-D-S-F Metal Scrap area | 0.77 | acre | 1480 | 1,140 |
| Rip roads & regrade berm | 6.22 | acre | 1,055 | 6,562 |
| M-D-F-S Roads | 6.22 | acre | 1,480 | 9,206 |
| SI | JBTOTAL | | | 99,919 |
| + 10% CONTINGENCY | | | | 9,992 |
| SUBTOTAL | | | | 109,911 |
| + 5 yr ESCALATIC | N(1.84%) | | | 10,491 |
| SOUTH MINING PROPERTY SUBTOTAL-A | | IN 19 | 95–\$ | \$120,402 |

RECLAMATION ESTIMATE Redmond Clay and Salt Company South Mining Property

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M/039/002

Prepared by Utah State Division of Oil, Gas & Mining

Reclamation Details - South Mine Property -- CONTINUED--

- -Pond area to be backfilled/regraded and M-D-S-F
- -ASSUMED: All facilities to be demolished and buried on site; no salvage value
- -ASSUMED: The dimensions shown for each facility listed below
- -Shed 45'x20'x18'; Shop 70'x30'x20'; Primary Crusher 60'x30'x20';
- -Secondary Crusher 60'x30'x20'; Mill 150'x80'x25'; Bulk Storage 150'x140'x25';
- -Scales 75'x20'x15'; Old Compressor House 30'x30'x12': Old Pump
- -House 30'x30'x12': Compressor House 30'x30'x12'; Tank 25' diameter;
- -ASSUMED: Crushers have reinforced concrete; bldgs have concrete floors

| <u>Description</u> | \$/Unit | Cost-\$ | | | |
|----------------------------------|-----------------------|---------|------------------|---------|--|
| Backfill/Regrade Pond | <u>Amount</u> 0.44 | CY | 802 | 353 | |
| M-D-S-F Pond area | 0.44 | | 1480 | 651 | |
| Demolish Shed | 16,200 | | 0.20 | 3,240 | |
| Demolish Shop | 42,000 | CF | 0.20 | 8,400 | |
| Demo. Shop Concrete Floor | 233 | SY | 11.75 | 2,738 | |
| Demo. Primary Crusher | 36,000 | CF | 0.20 | 7,200 | |
| Demo. Crusher Concrete | 200 | CY | 245 | 49,000 | |
| Demo. Secondary Crusher | 36,000 | CF | 0.20 | 7,200 | |
| Demo. Crusher Concrete | 200 | CY | 245 | 49,000 | |
| Demolish Mill | 300,000 | CF | 0.20 | 60,000 | |
| Demo. Mill Concrete Floor | 1333 | SY | 11.75 | 15,663 | |
| Demolish Bulk Storage | 525,000 | CF | 0.20 | 105,000 | |
| Demo. Bulk Storage Floor | 2333 | SY | 9.20 | 21,464 | |
| Demolish Scales | 22,500 | CF | 0.20 | 4,500 | |
| Demo. Old Pump House | 10,800 | CF | 0.20 | 2,160 | |
| Demo. Old Compressor House | 10,800 | CF | 0.20 | 2,160 | |
| Demo. Compressor House | 10,800 | CF | 0.20 | 2,160 | |
| Demolish Tank | 1 | ea | 500 | 500 | |
| S | | | 341,388 | | |
| + 10% CONTINGENCY | | | | 34,139 | |
| SUBTOTAL | | | | 375,527 | |
| + 5 yr ESCALATION(1.84%) | | | | 35,843 | |
| SOUTH MINING PROPERTY SUBTOTAL-B | | | IN 1995-\$ \$411 | | |

RECLAMATION ESTIMATE

Redmond Clay and Salt Company Clay Mining Property

Sanpete County

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10/01/90

M/039/002

Prepared by Utah State Division of Oil, Gas & Mining

Reclamation Details - Clay Mine Property

- -ASSUMED: Clay Mine highwalls are 60 ft high for entire pit area
- -Pit highwalls to be blasted/regraded to a 2:1 slope for entire perimeter
- -Four Pits: (1) 1.17 acre P=1,040'; (2) 2.61 acre P=1,250';
- (3) 1.18 acre P=1,040'; (4) 2.44 acre P=2,080';
- -Pit floors to be R-M-D-F-S
- -ASSUMED: Clay Pads have an earthen base
- -Two Clay Pads: (1) 2.36 acre; (2) 11.16 acre; to be R-M-D-S-F
- -Brine Pond to be backfilled/regraded & M-D-S-F
- -ASSUMED: Clay Mill to be demolished and debris buried on site
- -ASSUMED: Clay Mill dimensions are 250'x100'x20', with a concrete floor
- -Roads to be R-M-D-S-F unless Division designated as post-mining use

| | | | | |
|-------------------------------|--------------------|---------|---------|-----------|
| <u>Description</u> | <u>Amount</u> | | \$/Unit | Cost-\$ |
| Regrading clay pit highwalls | 5,410 | LF | 11.00 | 59,510 |
| Rip Clay pit floors | 7.40 | acre | 955 | 7,067 |
| M-D-F-S Clay pit floors | 7.40 | acre | 1,480 | 10,952 |
| Rip Clay Pads | 13.52 | acre | 955 | 12,912 |
| M-D-S-F Clay Pads | 13.52 | acre | 1480 | 20,010 |
| Backfill/Regrade Brine Pond | 0.69 | acre | 1210 | 835 |
| M-D-S-F Brine Pond | 0.69 | acre | 1480 | 1,021 |
| Demo. Clay Mill | 500,000 | CF | 0.20 | 100,000 |
| Demo. Clay Mill Floor | 2,777 | SY | 9.20 | 25,548 |
| Rip roads & regrade berm | 8.24 | acre | 1,055 | 8,693 |
| M-D-F-S Roads | 8.24 | acre | 1,480 | 12,195 |
| | | 258,743 | | |
| 4 | | 25,874 | | |
| | 284,617 | | | |
| + 5 yr | 27,166 | | | |
| CLAY MINING PROPERTY S | SUBTOTAL IN 1995-S | \$ | | \$311,784 |

RECLAMATION ESTIMATE

Redmond Clay and Salt Company Salt & Clay Mining Properties M/039/002

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Prepared by Utah State Division of Oil, Gas & Mining

*** REFERENCES USED IN CALCULATING THIS ESTIMATE:

- -Means Site Work Cost Data 1990
- -Caterpillar Performance Handbook, Edition 18
- -Rental Rate Blue Book, 1989 & 1990 sources

Blasting [022–234–0100] <= Means Reference Number

Mulch [029-516-0350]

Disking [029-204-6050]

Seeding [029-308-1600]

Fertilizing [029-720-0130]

Building Demolition & Disposal (Burial) [020-604-0500] & [020-604-0100]

Concrete Demolition, 6" thick, mesh reinforced [020-554-1900]

Concrete Demolition, 6" thick, rod reinforced [020-554-2000]

Concrete Demolition, 7-24" thick, reinforced [020-554-2200]

- ***The following items were calculated by the Division using the
- *** Cat Handbook and Bluebook:

Regrading Portal Closures, Highwalls, Dumps, Piles, Ponds

Ripping Pit Floors, Roads, Pads

Burying Scrap Metal

SUMMARY OF RECLAMATION COSTS

| NORTH MINING PROPERTY SUBTOTAL | \$120,002 |
|----------------------------------|-----------|
| SOUTH MINING PROPERTY SUBTOTAL-A | \$120,402 |
| SOUTH MINING PROPERTY SUBTOTAL-B | \$411,370 |
| CLAY MINING PROPERTY SUBTOTAL | \$311,784 |
| | |

TOTAL OF RECLAMATION ESTIMATE

\$963,558

ROUNDED TOTAL OF RECLAMATION ESTIMATE IN 1995-\$ \$963,600

RECLAMATION COST BASIS 9/25/90 RIPPING M/039/002 Parameters Used in Calculations for File No. **DETAILS/ASSUMPTIONS** -Caterpillar D9N dozer, 370hp, multishank ripper (3 tips) -shank gauge 7'8" (tip to tip), pocket spacing 3'10" (between shanks) -ASSUME width between passes ~2.5' => overall pass width = 10' -ASSUME ripping to 12" depth, average speed = 0.25 MPH, 1 MPH=88 FPM -NOTE: ripping at 0.25 MPH => mtl with seismic velocity ~4-5,000 FPS -one acre = 43,560 SF, use $\sim 400'$ x 110'block -ASSUME every 400' requires 0.30 min to raise, pivot, turn & lower -ASSUME work efficiency of 50 minutes/hour DIST SPEED 1 ADD MIN/PASS Time/Pass =(dist/speed)+ add on 400.00 0.25 0.30 18.48 TIME PASS/HR #Pass/Hour = time/(MIN/PASS) 50.00 2.71 FT/PASS SF/PASS Sq-ft Ripped/Pass =(length/pass)*(FT/PASS) 10.00 4000.00 AC/PASS Acre Ripped/Pass = (SF/PASS)/(SF/acre) 0.09 AC/HR Acre Ripped/Hr =(ACRE/PASS)*(PASS/HR) 0.25 HRS/AC Hrs to Rip one acre = 1 / (ACRE/HR)4.03 FROM RENTAL RATE BLUE BOOK 4/90 **EQUIP** OPER Hourly Cost, semi-U (pg 9-136) 135.00 33.75 Multi-shank rippers, 3 (pg 9-164) 24.00 4.10 Sub-totals 159.00 37.85 Mult by regional factor 1.05 1.05 Sub-totals 166.95 39.74 Sub-total Equipment & Operating Cost 206.69 (\$/HR) FROM MEANS SITE WORK COST DATA 1990 Crew B-10M, 1-Equip Operator (med), hourly cost 30.68 (\$/HR) TOTAL COST PER HOUR 237.37 (\$/HR) TOTAL RIPPING COST PER ACRE 955.51 (\$/ACRE)

| RECLAMATION COST BASIS | | | 9/25/90 | | | |
|---|---------------------------------------|-------------------|---------|-----------------|--|--|
| DIDDING | | | | | | |
| Parameters Used in Calculations for File No. M/039/002 | | | | | | |
| DETAILS/ASSUMPTIONS | | | | | | |
| -Caterpillar D9N dozer, 370hp, multishank ripper (3 tips) | | | | | | |
| -shank gauge 7'8" (tip to tip), pocket sp | | | hanks) | | | |
| -ASSUME width between passes ~2.5 | ' => overall | pass width : | = 10' | | | |
| -ASSUME ripping to 12" depth, averag | | | | | | |
| -NOTE: ripping at 0.25 MPH => mtl with | | locity $\sim 4-5$ | ,000 FP | S | | |
| -one acre = 43,560 SF, use \sim 400' x 11 | | | | | | |
| -ASSUME every 400' requires 0.30 min | | ot, turn & lo | wer | | | |
| -ASSUME work efficiency of 50 minutes | ···· | | | | | |
| Time/Deep (dist/one a Deep late) | DIST | SPEED | ADD | MIN/PASS | | |
| Time/Pass =(dist/speed)+ add on | 400.00 | 0.30 | 0.30 | 15.45 | | |
| #Pass/Hour = time/(MIN/PASS) | | TIME | | PASS/HR | | |
| Lassifical = time/(witty/PASS) | | 50.00 FT/PASS | | 3.24 SF/PASS | | |
| Sq-ft Ripped/Pass =(length/pass)*(FT/F | 2222 | 10.00 | | 4000.00 | | |
| led it inplean dee –(lengtimpass) (i in | AUU) | 10.00 | | AC/PASS | | |
| Acre Ripped/Pass = (SF/PASS)/(SF/acre) 0.09 | | | | | | |
| AC/HR | | | | | | |
| Acre Ripped/Hr =(ACRE/PASS)*(PASS | /HR) | | | 0.30 | | |
| | · | | | HRS/AC | | |
| Hrs to Rip one acre = 1 /(ACRE/HR) | · · · · · · · · · · · · · · · · · · · | - V | | 3.37 | | |
| FROM RENTAL RATE BLUE BOOK 4/ | 90 | | | | | |
| | EQUIP | OPER | | | | |
| Hourly Cost, semi-U (pg 9-136) | 135.00 | 33.75 | | | | |
| Multi-shank rippers, 3 (pg 9-164) | <u>24.00</u> | <u>4.10</u> | | | | |
| Sub-totals | 159.00 | 37.85 | | | | |
| Mult by regional factor | <u>1.05</u> | <u>1.05</u> | | | | |
| Sub-totals | 166.95 | 39.74 | 000 00 | - - | | |
| Sub-total Equipment & Operating Cos | ST . | | 206.69 | (\$/HR) | | |
| FROM MEANS SITE WORK COST DAT | | | | | | |
| Crew B-10M, 1-Equip Operator (med), | hourly cost | | | (\$/HR) | | |
| TOTAL COST PER HOUR | | | 237.37 | (\$/HR) | | |
| TOTAL RIPPING COST PER ACRE | | | 798.84 | (\$/ACRE) | | |

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| RECLAMATION COST BASIS | | | 9/25/90 | | |
|--|---------------|-------------|---------------|----------------------------|--|
| MTL REDISTRIB/GRADEWORK | | | | | |
| Parameters Used in Calculations | for File N | lo. | M/039/ | 1002 | |
| DETAILS/ASSUMPTIONS | | | | | |
| -Caterpillar D9N dozer, 370hp, universal | blade, track | tvpe | | | |
| -Info from Caterpillar Performance Handl | | | n 1–11 | • | |
| -Operator: Average, correction factor = 0 | | • | | | |
| -Material: ASSUME Loose Stockpile, corr | rection facto | 0r = 1.20 | | | |
| -Slot Dozing: factor = 1.20; Visibility: exc | ellent, facto | or = 1.0 | | | |
| -Job Efficiency: 50min/hr,factor = 0.83; D | irect Drive | Trans: fact | or $=0.80$ | | |
| -Mtl Weight: ASSUME 2550 LB/CY, facto | | | | | |
| -Grade: ASSUME +5%, factor =0.90 | | | • | | |
| -Distance: ASSUME 200 ft average push | | | | | |
| => Sec. 1-11, pg 58, Uncorrected Max P | roduction | | 700.00 | (LCY/HR) | |
| Correction Factors shown above | 0.75 | 1.20 | 1.20 | 1.20 | |
| | 1.00 | 0.83 | 0.80 | 0.90 | |
| | 0.90 | | | | |
| Overall Correction Factor = | | 0.70 | | | |
| Est Production = Max Production* Correct | | | 487.93 | (CY/HR) | |
| FROM RENTAL RATE BLUE BOOK 4/90 | _ | | | | |
| | EQUIP | OPER | | | |
| Hourly Cost, semi-U (pg 9-136) | 135.00 | 33.75 | | | |
| Mult by regional factor | <u>1.05</u> | | | | |
| Sub-totals | 141.75 | 35.44 | | | |
| Sub-total Equipment & Operating Cost | | | 177.19 | (\$/HR) | |
| EDOM MEANIC CITE MODIC COOT DATA | 4000 | | | | |
| FROM MEANS SITE WORK COST DATA | | | 00.00 | (A (1 1 D) | |
| Crew B-10M, 1-Equip Operator (med), he TOTAL COST PER HOUR | ourly cost | | | (\$/HR) | |
| TOTAL COST PER HOUR | AREA | DEPTH | 207.87 VOL | (\$/HK) | |
| -1.0 ft deep over one acre | 43560.0 | 1.0 | 1613.3 | (CV) | |
| -1.5 ft deep over one acre | 43560.0 | 1.5 | | | |
| -2.0 ft deep over one acre | 43560.0 | 2.0 | 3226.7 | • | |
| NOTE: Cost/Acre is dependent upon dept | | | | (01) | |
| and the control of th | (\$/ACRE) | - | (\$/CY) | | |
| COST/ACRE 1.0 FT DEEP | 687.31 | | 0.43 | | |
| COST/ACRE 1.5 FT DEEP | 1030.97 | • | 0.43 | | |
| COST/ACRE 2.0 FT DEEP | 1374.63 | ı | 0.43 | | |

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| RECLAMATION COST BASIS | | | 9/28/90 | |
|--|---------------|---------------------------------------|----------|----------|
| MTL REDISTRIB/GRADEWORK | • | | 0,20,00 | |
| Parameters Used in Calculations | • | 0 | M/039 | 1/007 |
| DETAILS/ASSUMPTIONS | 101 1 110 14 | · · · · · · · · · · · · · · · · · · · | | / |
| -Caterpillar D9N dozer, 370hp, universal | blade, track | tvne | | |
| -Info from Caterpillar Performance Handl | • | | on 1–11 | |
| -Operator: Average, correction factor = 0 | | , | | - |
| -Material: ASSUME Loose Stockpile, cor | | r = 1.20 | | |
| -Slot Dozing: factor = 1.20; Visibility: exc | | | | |
| -Job Efficiency: 50min/hr,factor = 0.83; D | irect Drive 7 | rans: fact | or =0.80 | |
| -Mtl Weight: ASSUME 2550 LB/CY, factor | | | | |
| -Grade: ASSUME +5%, factor =0.90 | | | | |
| -Distance: ASSUME 100 ft average push | • | | | |
| => Sec. 1-11, pg 58, Uncorrected Max F | roduction | | 1200.00 | (LCY/HR) |
| Correction Factors shown above | 0.75 | 1.20 | 1.20 | 1.20 |
| | 1.00 | 0.83 | 0.80 | 0.90 |
| | 0.90 | | | |
| Overall Correction Factor = | | 0.70 | | |
| | | | | (CY/HR) |
| FROM RENTAL RATE BLUE BOOK 4/9 | _ | | | |
| House Cook comi II (no 0, 100) | EQUIP | OPER | | |
| Hourly Cost, semi-U (pg 9-136) | 135.00 | 33.75 | | |
| Mult by regional factor Sub-totals | <u>1.05</u> | 1.05 | | |
| Sub-total Equipment & Operating Cost | 141.75 | 35.44 | 177 10 | (\$/LUD) |
| Continue Equipment & Operating Cost | | | 177.19 | (\$/HR) |
| FROM MEANS SITE WORK COST DATA | 1990 | | | |
| Crew B-10M, 1-Equip Operator (med), he | | | 30.68 | (\$/HR) |
| TOTAL COST PER HOUR | <i></i> | | 207.87 | |
| | AREA | DEPTH | VOL | (42771) |
| -1.0 ft deep over one acre | 43560.0 | 1.0 | 1613.3 | (CY) |
| -1.5 ft deep over one acre | 43560.0 | 1.5 | 2420.0 | ` ' |
| -2.0 ft deep over one acre | 43560.0 | 2.0 | 3226.7 | (CY) |
| NOTE: Cost/Acre is dependent upon dep | th/acre (volu | me of mtl) |) | - |
| | (\$/ACRE) | 1 | (\$/CY) | |
| COST/ACRE 1.0 FT DEEP | 400.93 | ; | 0.25 | |
| COST/ACRE 1.5 FT DEEP | 601.40 | | 0.25 | |
| COST/ACRE 2.0 FT DEEP | 801.87 | _ | 0.25 | |

408 - 10 to 10 to